

L 11826-66

ACC NR: AP6001569

3

The code pulses separate the reference pulses from the detector signals after amplification. These same code pulses prevent registration of the reference pulses when the detector signals are being recorded. Pulses from a second amplitude-controlled oscillator may also be fed to the preamplifier input for simulating detector signals when checking the operation of the device. From the output of the preamplifier, the signals being studied and the reference pulses are fed to the third grid of a 6A3P tube, which controls amplification during stabilization. Amplification control voltage from the stabilization unit is fed to the first grid of this tube. The signals are then amplified by a UIS-II amplifier and fed through the expander to the amplitude analyzer. The various sections of the unit are described in detail, with diagrams of the cooling unit, low-noise preamplifier, expander, stabilization circuit, and output stage of the amplitude-controlled oscillator. Tests showed that continuous-duty stability of the analyzer is better than 0.15% with no apparent effects of interference from the cyclotron with which it is designed to be used. The authors thank S. M. Ryvkin, O. A. Matveev, and N. B. Strokan for graciously supplying experimental detector models. Orig. art. has: 8 figures.

[08]

SUB CODE: 40, 09 / SUBM DATE: 17 Oct 64 / ORIG REF: 003 / OTH REF: 001 / ATD PRESS: 4/71

HW

Card 3/3

GAL'PERIN, L.N.; MASHKINOV, L.B.; SOKOLOV, D.N.

Laboratory automatically-integrating chromatograph. Izm. tekhn.  
no.11:50-51 N '65. (MIRA 18:12)

ACC NR: AP6034227

(N)

SOURCE CODE: UR/0120/66/000/005/0110/0114

AUTHOR: Nazarov, V. B.; Zabrodin, V. A.; Kirillov, P. K.; Gal'perin, L. N.

ORG: Affiliate of the Institute of Chemical Physics, AN SSSR, Chernogolovka (Filial Instituta khimicheskoy fiziki AN SSSR)

TITLE: Reversible digital to analog converter counter based on decatrons

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 110-114.

TOPIC TAGS: pulse counter, digital analog converter

ABSTRACT: Figure 1 shows a simplified diagram of the digital to analog converter, associated with an up-down counter utilizing decatrons as counting elements. Such a counter is frequently needed in automatic control applications, where it is necessary to obtain a voltage proportional to the accumulated number of pulses. While the actual counter circuitry is conventional for use with decade counting and glow transfer tubes, the method of digital to analog conversion is quite unusual. As shown in figure 1, each decade is equipped with a bank of resistors. One resistor is associated with each cathode (except "0") in each of the three decatrons. The resistor values are weighted to generate output voltage exactly proportional to the instantaneous accumulated pulse count stored in the decatrons. Constant current sources are used to supply each of the tubes. The design of the current sources is conventional, utilizing a series triode in

UDC: 621.374.324

Card 1/2

ACC NR: AP6C34227

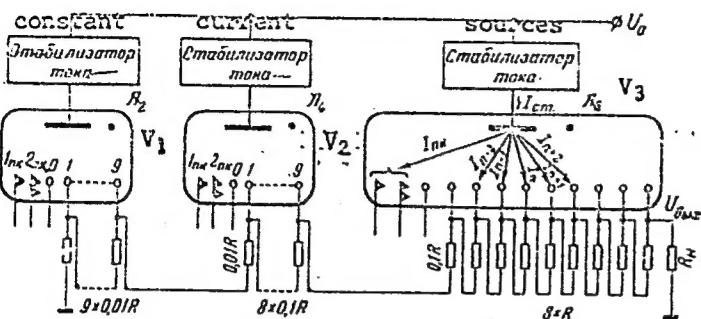


Fig. 1.

which the grid bias is maintained constant by a transistor network with a voltage reference in the form of a glow tube. The expressions for the output voltage and the predictable errors are given as functions of the pulse count and the circuit parameters. The total conversion error does not exceed 0.1% for temperature fluctuation of  $\pm 5^\circ\text{C}$  and line voltage changes of  $\pm 10\%$ . Transistor logic is utilized in the input signal and the steering control. The instrument can be used for generation of extremely long ramp voltages. In this case the input pulses are generated by a crystal controlled oscillator. Orig. art. has: 4 figures, 5 formulas.

SUB CODE: 09/ SUBM DATE: 27Aug65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

VASIL'YEVA, A.V.; STEPANYAN, Ye.G.; GAL'PERIN, I.P.; YURKO, L.P.; ORAKAYEVA, N.S.

Epidemiology of typhus abdominalis and paratyphoid fever in the  
City of Ashkhabad. Zdrav. Turk. 5 no.4:14-16 Jl-Ag '61.

(MIRA 14:10)

1. Iz Ashkhabadskogo instituta epidemiologii i gigiyeny (direktor -  
dotsent Ye.S.Popova).

(ASHKABAD—TYPHOID FEVER) (PARATYPHOID FEVER)

ACC NR: AP6026945

SOURCE CODE: UR/0115/66/000/C07/0015/0017

AUTHOR: Gal'perin, L. N.; Dovbiy, Ye. V.

ORG: none

TITLE: Discrete instrument for measuring average rates of long slowly-varying weak signals.

SOURCE: Izmeritel'naya tekhnika, no. 7, 1966, 15-17

TOPIC TAGS: digital integrator, industrial automation

ABSTRACT: The new instrument uses a discrete integration (instead of differentiation) principle which is little sensitive to certain noise. The principal circuit of the instrument ensures the measuring interval  $\Delta t = \text{const.}$  and the time between intervals  $t_0 = \text{const.}$ ; integration of the input function during  $\Delta t$  in the beginning and the end of the measuring cycle; subtraction of the results by the end of the measuring cycle; recording of  $U(t)$  and  $\int U(t) dt - \int U(t) dt$ ; and restoration of the system to its initial state for the new cycle. A block diagram of the instrument having an 800-sec cycle ( $\Delta t = 100$  sec,  $t_0 = 600$  sec) is explained. An experimental model of the instrument developed at the IKhF AN SSSR has 11 fixed ranges for maximum input signals 50--500  $\mu\text{v}$  and maximum rates of change of the input signal 0.1--4  $\mu\text{v}/\text{min}$ ; maximum time of continuous recording, over 10 hrs. Claimed instrument error,  $\pm 3.2\%$ .  
Orig. art. has: 1 figure and 6 formulas.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 003

Card 1/1

UDC: 681.142.644.3

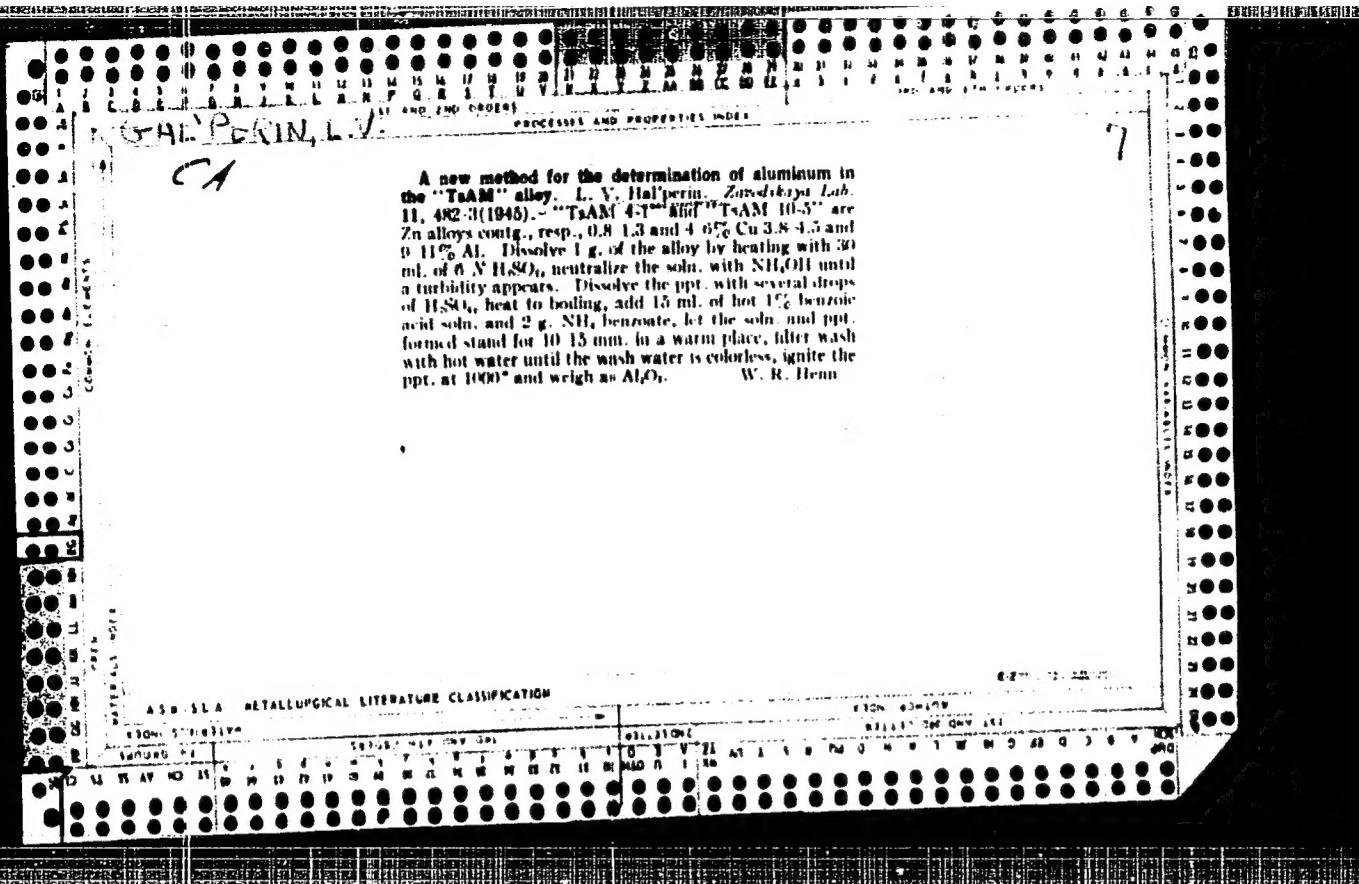
CA

Photocolorimetric determination of titanium in refractory and by the compensation method. I. A. Galperin. *Zavodskaya Lab.*, 11, No. 1, 103-107 (1945). Comparative data of Ti by various methods with standard samples costing 0.40 and 0.13% of Ti indicated that the best results are obtained by the cupferron method. Dissolve the samples in 80 ml. of 7 N  $H_2SO_4$ , oxidize by adding conc.  $HNO_3$  dropwise. Boil until SO<sub>2</sub> fumes appear, add 100 ml. of water, filter and wash several times with 1.3 N HCl. Ignite the  $SO_3$  residue, heat with  $HF + H_2O_2$ , fuse the residue with 2 g. of  $K_2SiO_4$ , ext. the melt with water, and add the melt to the main filtrate. Add the contents of the filters and, dropwise with shaking, 1.5 ml. of 3% cupferron until to this filtrate. Let the ppt. of Fe and Ti settle for 10-15 min., filter, wash 10 times with 5%  $H_2O_2$  and 7 times with 5% of  $NH_4OH$  by vol. to remove W and Mo. Ignite the residue, and fuse with  $K_2NaCO_3$ . Ext. the melt with hot water, add 1 ml. of 25% NaOH, boil slightly, and filter (the residue contains  $Na_2TiO_3$  and  $Fe(OH)_3$ , the soln. contains V), wash the filter with hot 1%  $Na_2CO_3$ , dry, ignite in a Pt crucible, and fuse with  $K_2SiO_4$ . Ext. the melt in (65 ml. of 10%  $H_2SO_4$ , heat the soln. (if not clear), cool, transfer to a 100-ml. measuring flask, add distilled water to the mark, and measure in the photocolorimeter the color produced in an aliquot treated with  $NH_4O_2$ . Five references. W. R. Henn

W. H. Henn

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R000614130002-4"



ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Suction boring during erection of bridge pile foundations. Transp.  
stroi. 13 no.9:68-70 S '63. (MIRA 16:12)

ANATOL'YEVSKIY, P.A.; GAL'PERIN, L.V.

Installation of a seepage control curtain by the suction boring method.  
Osn. fund.i mekh.grun. 6 no.1:31-32 '64. (MIRA 17:2)

ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Rotary and suction method of boring. Gor.zhur. no.4:75-77 Ap  
'64. (MIRA 17:4)

1. Gosudarstvennyy institut po proyektirovaniyu spetsial'nykh  
sooruzheniy promyshlennogo stroitel'stva Gosstroya SSSR.

ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Construction and calculation of radiant water intakes in the  
Federal Republic of Germany. Vod. i san. tekhn. no. 9: 36-38 S  
'64. (MIRA 17:11)

ANATOL'YEVSKIY, Pavel Aramovich; GAL'PERIN, Leonid Vladimirovich;  
KAZ'IN-BALASHOV, A.I., inzh., nauchn. red.

[Intakes for underground water; practices abroad in de-signing, constructing, and maintaining radial intakes] Vodozabor podzemnykh vod; zarubezhnyi opyt proektirovaniia, stroitel'stva i ekspluatatsii luchevykh vodozaborov. Mo-skva, Stroiizdat, 1965. 117 p. (MIRA 18:10)

TALOVA, N.A.; GAI'PERIN, L.V.

Underwater tanks for storing petroleum by the "Sotank" method. Stroi. truboprov. 10 no. 11:35-36 N 65.

(IMA 18:12)

C. 4

2-5

Utilization of fixatives DTsU and DTsM. L. Ya. Gal'yan and M. M. Gol'tsman. *Izgizv. Prom. Byu-Nos-4-1972* (1031). DTsU is the acetate of the base DTs and is formed by the hydrolysis in HCHO of the resin obtained by condensing diacrylamide with HCHO while DTsM is the copper deriv. of DTsU. Direct-dyed, dark-colored knitted material is thoroughly washed and treated for 20 min. at 35° in bath contg. 3 g./l. of fixative. DTsU increases resistance against laundering at 40°, perspiration, and wet rubbing but not against dry rubbing. resistance against light is decreased (according to literature data). DTsM does not have these drawbacks. B. Z. Kamach

ROZHNOV, V.Ye; TUROVA, Z.G.; GAL'PERIN, L. Ye. (Moskva)

Some neurodynamic and biochemical changes in chronic alcoholics under the influence of small doses of alcohol. Trudy Gos. nauch-iscl. inst. psikh. 38:203-210 '63. (MIRA 16:11)

YAKIMUK, P.G., inzhener-mekhanik; VASILYUK, N.F.; GAL'PERIN, L.Yu.;  
ZAYTSEV, T.F.; KARPEN'KO, S.A.; STEPANENKO, A.N.; YAVORSKIY, A.A.;  
SHAGOMYALO, V.I., redaktor; GURZHIY, M.Ye., tekhnicheskiy redaktor

[Tractor operator's manual] Spravochnik traktorista. Izd. 4-oe,  
perer. i dop. Kiev, Gos. izd-vo selkhoz. lit-ry USSR, 1955. 519 p.  
(Tractors--Handbooks, manuals, etc) (MIRA 9:1)

Справочник тракториста

VASILYUK, N.F.; GAL'PERIN, L.Yu.; ZAYTSEV, T.Y., KARPENKO, S.A.; STEPANENKO, A.N.; YAVORSKIY, A.A.; YAKIMUK, P.G., inzhener-mekhanik, redaktor; KOZAK, F.Ye., redaktor; CHEREVATSKIY, S.A., tekhnicheskiy redaktor

[Handbook for tractor operators] Spravochnik traktorista. Izd. 5-e, perer. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR, 1956. 471 p.  
(Tractors) (MIRA 10:4)

SIZOV, A.A., inzh.; GAL'PERIN, L.Yu., arkhitektor

Technical and economic efficiency of buildings constructed by  
the method of lifting. Biul.tekh.inform.po stroi. 5 no.12:  
3-4 59. (MIRA 13:4)  
(Leningrad--Apartment houses)

MOROZOVSKAYA, M.I.; DEMCHENKO, I.A.; TISHCHENKO, O.D.; GORELYSHEVA, I.I.;  
YEVLAKHOVA, V.F.; NADTOCHKIY, S.S.; GAL'PERIN, L.Yu; BELIY, Ya.M.;  
LAZEBNYY, N.V.; DREBENKO, V.I.; SERVINENKO, G.A.; SHEVCHUK, M.K.;  
D'YACHENKO, V.I.; AGAFONOV, N.I.; BESFAMIL'NAYA, P.S., CHERNENKO, Yu.L.

Preventive antimalaria measures for lumberjacks employed in clearing  
the bed of the future Kakhovka Reservoir. Med.paraz. i paraz.bol.24  
no.3:207-208 J1-S '55. (MLRA 8:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i  
meditsinskoy parazitologii imeni prof. V. Ya. Rubashkina (dir.  
instituta I.S.Demchenko) i Zaporozhskoy, Dnepropetrovskoy i  
Khersonskoy oblastnykh protivomalyariynyh stantsiy.

(MALARIA, prevention and control,  
in Russia, in forest workers)

GAL'PERIN, L.Yu.; ZUSSER, A.P.; IOFFE, M.I.; MINTS, V.M.; SIZOV, A.A.;  
STAROVLOYTOV, I.F.; red. izd.-va; PUL'KINA, Ye.A., tekhn. red.

[Experience in the design and erection of buildings by elevat-  
ing the stories] Opyt proektirovaniia i montazha zdanii meto-  
dom pod"ema etazhei. Leningrad, Gosstroizdat, 1962. 147 p.  
(MIRA 15:8)

(Precast concrete construction)  
(Hoisting machinery)

GAL'PERIN, M.

GAL'PERIN, M., kand.tekhn.nauk; ABEZGAUZ, V., inzh.

Mechanized work on frozen soils. Stroitel' no.11:12 N '57.  
(MIRA 10:12)

(Excavating machinery)  
(Earthwork--Cold weather conditions)

GAL'PERIN, Mariya.

[Angiography of the brain; angiographic symptomatology of tumors of the big hemispheres] Angiografiia golevnogo mozga; angiograficheskaiia symptomatologija opukholei bol'shikh polusharii.  
[Leningrad] Medgiz, 1950. 145 p. (MLRA 9:4)  
(BRAIN--TUMORS) (DIAGNOSIS, RADIOSCOPIC)

GAL'PERIN, N., kand. tekhn. nauk; ABEZGAUS, V., inzh.

Operations of vibrators. Stroitel' no.1:27-29 Ja '58. (MIRA 15:2)  
(Vibrators)

84-58-6-29/59

AUTHOR: Gal'perin, M., Engineer

TITLE: The An-10 Aircraft - Electrical Equipment (Samolet An-10 -  
- Elektrooborudovaniye)

PERIODICAL: Grazhdanskaya aviaciya, 1958, Nr 6, pp 28-29 (USSR)

ABSTRACT: The article describes, in some detail, but in general terms the power supply system of the new airliner, the total output of which is 128 kilowatts. The high degree of electrification is also illustrated by the total cable length, which is between 40 and 45 kilometers.

1. Aircraft--USSR 2. Power supplies--Applications

Card 1/1

ACCESSION NR: AP4044124

S/0084/64/000/008/0023/0029

AUTHOR: Gal'perin, M. (Engineer); Ushakov, O. (Engineer); Vasil'chenko, G (Engineer)

TITLE: The resource is doubled

SOURCE: Grazhdanskaya aviatsiya, no. 8, 1964, 28-29

TOPIC TAGS: piston aircraft, scoring, local overheating, connecting rod, cylinder, side pressure, lubricant, oil

ABSTRACT: This article deals with the necessity of increasing the reliability and resources of piston aircraft. In the case of the Il-14, Il-12 and An-2 aircraft the main cause of trouble seems to be the scoring of the pistons no. 2 and 5 caused by local overheating and side pressure. These two pistons, coupled to the main connecting rods, are acted upon by forces of 2035 and 1600 kg during compression and expansion, respectively. The Omsk aircraft factory has solved the problem of decreasing the side pressure on the working surface of the pistons by means of decreasing the deformation of the cylinders through constant and uniform air cooling. The Omsk designers have succeeded in lowering the piston temperature, improving the cylinder lubricants and finally, reducing the loss of horsepower of the cylinders of

Card 1/2

ACCESSION NR: AP4044124

the main connecting rods. All these improvements have almost doubled the life span of these piston engines. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODES: AC

NO REF SOV: 000

OTHER: 000

Card 2/2

ACC NR: AP6032241

SOURCE CODE: UR/0084/66/000/010/0022/0022

AUTHOR: Gal'perin, M. (Engineer, Omsk); Vasil'chenko, G. (Engineer, Omsk)

ORG: none

TITLE: Introducing centrifugal oil cleaner

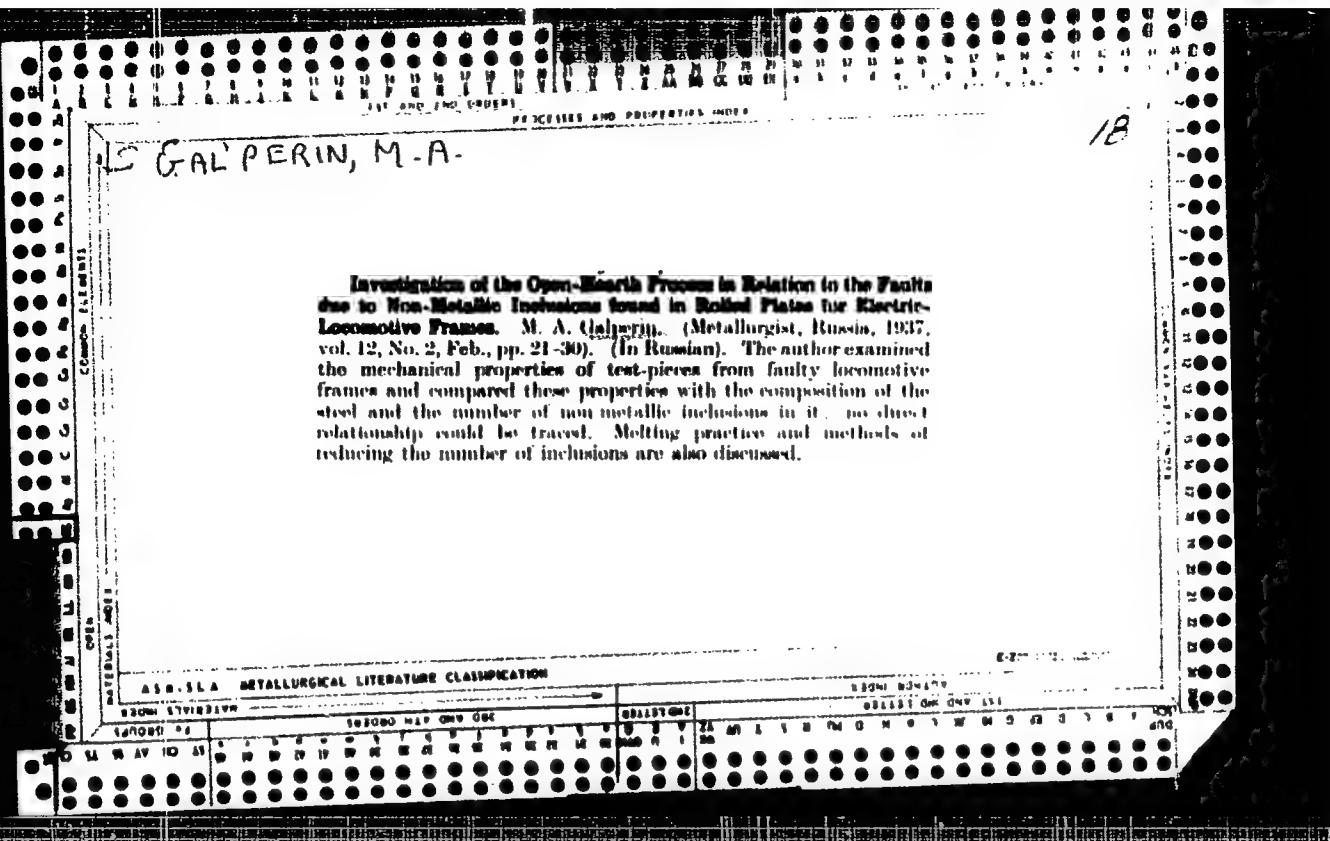
SOURCE: Grazhdanskaya aviatsiya, no. 10, 1966, 22

TOPIC TAGS: oil cleaning device, aviation oil cleaner, ~~oil cleaning~~ centrifuge, fuel oil, fuel contamination, lubricating oil, petroleum refinery equipment, aircraft engine, aircraft fuel system equipment, ASh-52V engine, ASh-82T engine

ABSTRACT: A centrifugal oil cleaner has been designed at the Omsk Engine Building Plant im. Baranov to clean impurities from aviation oils, which results from the operation of ASh-82V and ASh-82T engines on Il-14 airplanes and Mi-4 helicopters. Oil, injected into the centrifuge through tangentially located nozzles, imparts a circular motion to the centrifuge rotor. When the oil pressure reaches 3-4 kg/cm<sup>2</sup>, the rotor spins at 5000 rpm. The heavy particles settle on the walls of the centrifuge, while the cleaned oil flows through the nozzles into the housing and is pumped out. A detailed description and drawing of the centrifugal oil cleaner are given. Orig. art. has: 1 figure.

SUB CODE: 21, 01, 11 / SUBM DATE: none

Card 1/1





GAL'PERIN, M.A. - kand.tekhn.nauk; ARDINTOV, V.V.; IVANOV, K.M., inzh.;  
KOPEL'MAJ-SERPUKHOVA, Z.I.

Studying the effect of prolonged heat treatment on the physico-mechanical properties of deposited austenitic metal. Svarka 1:73-85 '58. (MIRA 12:8)

(Hard facing--Testing)  
(Electrodes--Testing)  
(Metals at high temperature)

25(1)

SOV/125-59-1-6/15

AUTHOR:

Gal'perin, M.A. A'dentov, V.V.

TITLE:

The Influence of the Prolonged Tempering of Austenite Welded-On Metal on its Tendency to Intercrystalline Corrosion (Vliyanie dlitel'nogo stareniya austenitnogo naplavlennogo metala na sklonnost' yego k mezhkristallitnoy korrozii)

PERIODICAL:

Avtomicheskaya st'arka 1959, Nr 1, p 56-42 (USSR)

ABSTRACT:

If a welded structure of 1Kh18N9T-type steel is put into operation under higher temperature conditions, the tendency of the steel and of the metal to intercrystalline corrosion must be determined by methods prescribed by GOST, and after prolonged tempering at working temperatures. The fitness of a material designed to operate under concrete conditions can be determined only after all data had been duly examined. A prolonged tempering at 500°C of the 1Kh18N9T-type steel and of Kh18N9B, Kh20N9B, Kh18N9M3, Kh18N9FOM-type welded-on metals, abruptly decreases the metal resistance to such corrosion. It has been proved experimentally that a loss of

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25(1)

SOV/125-59-1-6/15

The Influence of the Prolonged Tempering of Austenite Welded-On Metal  
on its Tendency to Intercrystalline Corrosion

metal resistance to such erosion may be ascribed to  
changes in composition in the carbide phase, especially  
to an increase of chromium. There are four tables, two  
photos, one graph, and two Soviet references.

ASSOCIATION: TepNII GKS

SUBMITTED: May 7, 1959

Card 2/2

GAL'PERIN, M.A., kand.tekhn.nauk

Effect of heat treatment on the properties of fusion edges in welding  
dissimilar steels. Svarka 2 '59.  
(Steel-Welding) (Welding-Testing) (MIRA 14:5)

GAL'PERIN, M.A., kand.tekhn.nauk

Structural changes in the boundary zone of weld joints in dissimilar  
steels. Svarka 2:47-57 '59. (MIRA 14:5)  
(Steel-Welding) (Steel-Metallography)

GAL'PERIN, M.A., kand.tekhn.nauk; ARDENTOV, V.V., kand.tekhn.nauk; IVANOV,  
K.M., inzh.

Tendency toward intercrystallite corrosion in austenitic filler metal  
depending on temperature and time of aging. Svarka 2:71-76 '59.

(Steel—Corrosion) (Metals, Effect of temperature on)  
(MIRA 14:5)

GAL'PERIN, M.D., professor, doktor meditsinskikh nauk; ZAYCHIKOVA, N.A.

The role of V.M.Bekhterov in the development of neurorentgenology  
in Russia. Vest. rent. i rad. 31 no.5:91-93 S-0 '56. (MLRA 10:1)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. M.D.Gal'perin)  
Psichoneurologicheskogo Instituta imeni V.M.Bekhtereva (dir. - prof.  
V.N.Myasishchev)  
(BRAIN, radiography  
contribution of V.M.Bekhterov)  
(BEKTEREV, VLADIMIR MIKHAILOVICH, 1857-1927)

GAL'PERIN, M.D.

GAL'PERIN, M.D., prof.

Angiographic symptoms of tumors and of some other diseases  
simulating tumors of the brain. Vop. neirokhir. 21 no.6:3-9  
N-D '57. (MIRA 11:2)

1. Rentgenologicheskaya otdeleniya Leningradskogo psichoneurolo-  
gicheskogo instituta imeni V.M.Bekhtereva.

(BRAIN NEOPLASMS, differ, diag.

angiography)

(ANGIOGRAPHY, CEREBRAL, in various dis.  
brain cancer, differ, diag.)

GAL'PERIN, M.D., prof., ZAYCHIKOVA, N.A., starshiy nauchnyy sotrudnik

Radiation damage to the skull. Vest.rent. i rad. 33 no.5:96-98  
S-0 '58 (MIRA 11:11)

1. Iz rentgenologicheskogo otdeleniya Leningradskogo psikhonevrologicheskogo instituta imeni V.M. Bekhtereva (dir. - prof. V.N. Myasishchev)  
(RADIATION, inj. eff.  
on cranium (Rus))  
(CRANIUM, eff. of radiations on  
inj. eff. (Rus))

GALPERIN, M.D.

**880 Experiences with Irradiation of Patients with Cerebral Tumours**

GALPERIN, M.D. Leningrad (Soviet Union)

At present, surgical-sound-irradiation treatment are regarded as being the most effective therapy. Irradiation methods occasionally prove to be highly beneficial.

The prosthesis for the removal of the tumor is of great importance. The surgical and irradiation treatments are not competitive. Taking into account the position of the tumor, its actual histological structure, the characteristics of the clinical condition and the general condition of the patient, preference should be given to one or the other method.

The author examined recent and past results of irradiation and combined irradiation and surgical treatment of brain-tumours during 1951-1959. 359 case histories of patients of the Neurosurgical Department of the Brestovets Institute of Neuro-Psychology were evaluated.

Irradiation was performed on patients with tumours of varied localizations and of different histological structure. Comparative assessment of the results of the different methods of irradiation in the patients was carried out, depending on the histological type of the tumor.

Analysis of these case histories indicated that the elaborated and applicable methods of irradiation of brain tumours prolong considerably the life of the patients and have an immediate, marked curative effect.

The complications occurring during treatment as well as afterwards were also studied. Clinical indices and contraindications of irradiation of patients with brain-tumours were elaborated.

**880 Effect of the Chronic Influence of Low Doses of Ionizing Irradiation on the Humoral and Cell-Linked Immunity in Animal Experiments**

KUSILEV, P.N. 41564-EV Leningrad (Soviet Union)

The author investigated the changes in natural immunity and immunogenic processes in laboratory animals under chronic irradiation with low doses of the gamma rays of  $\text{Co}^{60}$ . The dose performance of the irradiation was 1.0-1.2 rads. The irradiation duration lasted from 30 days to 2.5 years. The total dose was 50-1500 rads. The effect of three irradiations led to the development of chronic radiation illness. On this basis the disorder in the humoral and cellular natural immunity and immunogenesis was investigated, with the following results:

1. Under chronic, uninterupted action, lethal radiation doses develop through auto-infection. The total lethal dose exceeds the single dose by 2-4 times. Chronic radiation illness is characterized by negligible leucopenia, preceded by a phase of leucocytosis.

2. Under chronic irradiation natural immunity and immunogenesis are disturbed. Reduction of natural immunity appears after 10 months and becomes manifested by a reduction of bactericidity of the blood, a reduction and reduction of phagocytic activity of the leucocytes. A change in the titre of the complement was observed only as late as after 10-12 months. Bacterium is preceded by reduced bactericidity of the blood.

3. The disturbance of cellular immunity is indicated by an increased sensitivity to toxins, by an enhanced reproduction of virus, by a lowering of the megakaryocytic and digestive capability of the reticulo-endothelial cells.

380

Presented at the Ninth International Congress of Radiology, Munich, 23-30 July 1959.

V. 101-102

1. The most marked reduction of natural immunity occurs in young animals born of irradiated parents and subjected during the period of endocrinogenesis to the effect of irradiation.

2. Chronic irradiation of an organism leads to disturbance of immunogenesis. However, at an irradiation dose equal to or slightly more, the production of antibodies is first suppressed. These differences are connected with the adaptation mechanisms and adaptive processes in the tissues producing the antibodies.

3. The place of suppression of natural immunity and immunogenesis may be preceded by a period of these stimulations. At a total dose of 50-100 rads, the following is observed: increase of bactericidity of the blood, increased phagocytic activity of the leucocytes, of the cells of the reticulo-endothelial system, reduced sensitivity to toxins, stimulation of anti-body formation.

**881 Irradiation of Cancer of the Oral Cavity, the Nasopharynx, and the Antrum**

KINOSHITA, K. 41564-EV Leningrad (Soviet Union)

Early results of the use of radio-active preparations (radium, radon, silver, cobalt, gold, thorium-228) in the treatment of 216 patients are presented. Among these 216 patients there were 97 with malignant tumours of the oral cavity, 41 with malignant tumours of the nasopharynx and 118 patients with malignant tumours of the antrum.

Carcinoma in the 1st and 2nd stages were found in 66 patients, stage 3 in 109 and stage 4 in 51 patients.

Treatment consisted in the combined method of x-ray therapy (radiation surgery, cavity therapy, applicator therapy and intercavitory therapy).

The patients were under observation over 3-10 years. Recovery was observed in 44% of the patients with malignant tumours in all 4 stages.

In some of the patients irradiation was followed by complications. The methods and the results of treatment are discussed.

**882 Radiological Investigations and Rational Means of Reducing the Dose During These Investigations**

POBEDINSKIY, M.N. Leningrad (Soviet Union)

During several years the natural level of radiation has been continuously. One of the factors raising this level are the radio-diagnostic examinations, which, according to reports from foreign foreign literature, account for 20-30% of the radiation dose received by the population by 25% - 30%.

Particular attention should be given to the effect of radiation on the sex glands. Gonocarcinoma of radiation may never occur with very low doses.

In X-ray exposures and fluoroscopy the tissue dose of the radiation striking the sex glands may be 100-1000 rads. The variation in dose depend on the conditions of radiation and also on the part of the body to which radiation is directed. The highest doses affecting the sex glands occur in fluoroscopy of the pelvic region, the hip and the abdomen, especially when repeated.

The necessity for an extra-protecting extension of radio-diagnosis for the population, and the use of methods of radiological examinations in practice, requires research into means for reducing the radiation dose acting on the sex glands during X-ray exposures and fluoroscopy. In order to reduce the radiation dose and to prevent serious radiation effects, the following is required: Highly qualified medical staff carrying out the radio-fluoroscopic examinations, knowledge of the radiation dose to which the patient is subjected and registration of the dose in the patient's card-index. The examinations should be performed with harder rays, using heavier filters and increased voltage, as well as total field doses.

In fluoroscopy the following should be made use of: fluoroscopy of the eye of the examiner, organization of the working hours and free suspension. In addition, the advantages of working with narrow beam should be made use of.

In radiological examination of the pelvic region, the hip and the abdomen, the sex glands must be protected from direct radiation.

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GAL'PERIN, M.D., prof.

Seventh International Oncological Congress in London. Vop.neirokhir.  
23 no.5:52-53 S-0 '59. (MIRA 12:11)  
(ONCOLOGY--CONGRESSES)

GAL'PERIN, M.D., prof.

Review of H. Fischgold, M. David, and P. Bregeat's book "Tomography of the base of the brain in neurosurgery and neuro-ophthalmology." Vop.neirokhir. 23 no.5:60-61 S-0 '59. (MIRA 12:11) (BRAIN--RADIOGRAPHY) (FISCHGOLD, H.) (DAVID, M.) (BREGEAT, P.)

GAL'PERIN, M.D.

Tomography of the skull and brain. Sbor. trud. Len. nauchn. ob-va  
nevr. i psikh. no.6:83-95 '59. (MIRA 13:12)

1. Iz rentgenologicheskogo otdelaniya Psikhonevrologicheskogo instituta  
imeni V.M. Bektereva (direktor - chlen-korrespondent Akademii peda-  
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(SKULL—RADIOGRAPHY) (BRAIN—RADIOGRAPHY)

GAL'PERIN, M.D.; ZAYCHIKOVA, N.A. [deceased]; PIL', B.N.

Significance of contrast methods of investigation in the diagnosis of nervous and mental diseases. Trudy Gos. nauch.-issl. psichonevrv. inst. no. 20141-53 '59. (MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy psichonevrologicheskiy institut imeni V.M. Bekhtereva, Leningrad.  
(NERVOUS SYSTEM—DISEASES) (BRAIN—RADIOGRAPHY)

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New methods for X-ray tomography in diseases of the brain. Trudy Gos. nauch.-issl. psikhonevr. inst. no.24:225-235 '61. (MIRA 15:5)

1. Rentgenologicheskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta imeni Bakhtereva.  
(BRAIN--RADIOGRAPHY)

GAL'PERIN, Mariya Davydovna; KATSMAN, A.Ya., red.; LEBEDEVA, Z.V.,  
tekhn. red.

[Angiography in the diagnosis of tumors and vascular  
diseases of the brain]Angiografiia v diagnostike opukholei i  
sosudistykh zabolеваний golovnogo mozga. Leningrad, Medgiz,  
1962. 190 p. (MIRA 15:9)

(ANGIOGRAPHY)

(BRAIN—DISEASES)

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"Clinical neuroradiology" by Kurt Decker. Reviewed by M.D.  
Gal'perin. Vest. rent. rad. 37 no.1:81-83 Ja-F '62. (MIRA 15:3)  
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(DECKER, KURT)

GAL'PERIN, M. D.

Angiography in the diagnosis of vascular diseases of the brain.  
Nauch. trudy Inst. nevr. AMN SSSR no.1:120-132 '60.  
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Bekhtereva.

(ANGIOGRAPHY) (CEREBROVASCULAR DISEASE)

ARENDT, A.A., zasl. deyatel' nauki prof.; ARKHANGEL'SKIY, V.V., kand. med. nauk; BLAGOVESHCHENSKAYA, N.S., doktor med. nauk; GAL'PERIN, M.D., prof.; KANDEL', E.I., kand. med. nauk; KORNYANSKIY, G.P., prof.; KORST, L.O., doktor med. nauk; RAZDOL'SKIY, I.Ya., zasl. deyatel' nauki prof.; EMDIN, P.I., zasl. deyatel' nauki prof. [deceased]; EPSHTEYN, P.V.; DAVIDENKOV, S.N., prof., otv. red.; BOGOLEPOV, N.K., prof., zam. otv. red.; SENCHILO, K.K., tekhn. red.

[Multivolume manual on neurology] Mnogotomnoe rukovodstvo po nevrologii. Moskva, Medgiz. Vol.5. [Tumors of the nervous system] Opukholi nervnoi sistemy. . 1961. 570 p.

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1. Deystvitel'nyy chlen AMN SSSR (for Davidenkov). 2. Chlen-korrespondent AMN SSSR (for Razdol'skiy).  
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BABCHIN, I.S., prof.; BABANOVA, A.G., doktor med. nauk; BLOKHIN, N.N., prof.; BONDARCHUK, A.V., prof.; GAL'PERIN, M.D., prof.; GOL'DSHTEYN, L.M., prof. [deceased]; DYMARSKIY, L.Yu., kand. med. nauk; KARPOV, N.A., prof.; KOYRO, M.A., nauchn. sotr.; LARIONOV, L.F., prof.; LITVINOVA, Ye.V., kand. med. nauk; MEL'NIKOV, R.A., kand. med. nauk; NECHAYEVA, I.D., doktor med. nauk; PETROV, Nikolay Nikolayevich, prof.; PETROV, Yu.V., kand. med. nauk; RAKOV, A.I., prof.; ROGOVENKO, S.S., kand. med. nauk; SENDUL'SKIY, I.Ya., prof.; SEREBROV, A.I., prof.; SMIRNOVA, I.N., kand. med. nauk; TAL'MAN, I.M., prof.; TOBILLEVICH, V.P., prof.; TRUKHALEV, A.I., kand. med. nauk; KHOLDIN, Semen Abramovich, prof.; CHEKHKARINA, Ye.A., kand. med. nauk; CHECHULIN, A.S., kand. med. nauk; SHAAK, V.A., prof. [deceased]; SHANIN, A.P., prof.; SHAPIRO, I.N., prof. [deceased]; SHEMYAKINA, T.V., kand. med. nauk; SHERMAN, S.I., prof.; ABRAKOV, L.V., red.; LEREDEVA, Z.V., tekhn. red.

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(CANCER)

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18-24 '62. (MIRA 15:6)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. M. D.  
Gal'perin) Nauchno-issledovatel'skogo psichonervologicheskogo  
instituta imeni V. M. Bekhtereva.

(MENINGITIS) (RADIOTHERAPY)

ABRAMOVICH, G.B.; GAL'PERIN, M.D.

X-ray and clinicopsychopathological studies on epilepsy in children.  
Vop.psikh.i nerv. 8:63-80 '62. (MIRA 17:4)

1. Iz detskogo psichiatricheskogo (zav. - prof. G.B.Abramovich)  
i rentgenologicheskogo (zav. - prof. M.D.Gal'perin) otdeleniy  
Psichonevrologicheskogo instituta imeni Bekhtereva (dir. -  
B.A.Lebedev).

GAL'PERIN, M.D.

Significance of angiography in the diagnosis of diseases  
of the magistral vessels of the brain. Vop. psikh. i nevr.  
no.9:41-63 '62. (MIRA 17:1)

1. Rentgenoradiologicheskoye otdeleniye Leningradskogo  
nauchno-issledovatel'skogo psichoneurologicheskogo insti-  
tuta imeni V.M. Bekhtereva.

MASHANSKIY, F.I.; GAL'PERIN, M.D.

Diagnosis, course and surgical treatment of epidermoids  
of the bones of the roof of the skull. Vop. psikh. i nevr.  
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GAL'PERIN, M.D.

Age morphology of brain vessels in an angiographic visualization.  
Trudy Gos.nauch.-issl.psikhonevr.inst. 28:107-126 '62.

(MIRA 15:12)

(BRAIN--BLOOD SUPPLY) (ANGIOGRAPHY)

Galtserin, M.S.

Leading Doctor in nervous diseases, Med. and. Phys. Univ. of St. Petersburg  
Soviet. (MIA 1941)

2. In roentgen-radiologicheskogo otdelenii (L.v. - prof. M.S.  
Galtserin) Psichoneurologicheskogo Instituta Dr. V.M.  
Rechtnikova.

GAL'PERIN, M.D.

X-ray studies in the clinic of nervous and mental diseases.  
Trudy Gos. nauch.-issl. psikhonevr. inst. 31:5-59 '63.

(MIA 17:6)

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inflammatory diseases of the brain and tumors in case of the  
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GOL'DSHTEYN, L.M., prof. [deceased]; GAL'PERIN, M.D., prof.

"Supervolttherapy" by J.Becker, G.Schubert. Reviewed by L.M.  
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GAL'PERIN, V.I.

Assembly of footing units and rate apparatus for turbines of the  
Stalingrad Hydroelectric Power Station. Emers,stroi. no.6:43-49 '58.

1. Shef-inzhener Leningradskogo metallicheskogo zavoda.  
(Stalingrad Hydroelectric Power Station)  
(Concrete construction)

(MIRA 12:11)

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PHASE I BOOK EXPLOITATION SOV/5460

Leningradskiy metallicheskij zavod. Otdel tekhnicheskoy informatsii.

Nekotorye voprosy tekhnologii proizvodstva turbin (Certain Problems in the Manufacture of Turbines) Moscow, Mashgiz, 1960. 398 p. (Series: Its: Trudy, vyp. 7) Errata slip inserted. 2,100 copies printed.

Sponsoring Agency: Sovet narodnogo khozyaystva Leningradskogo ekonomicheskogo administrativnogo rayona, Upravleniye tyanzhelogo mashinostroyeniya, and Leningradskiy dvazhdy ordena Lenina metallicheskij zavod. Otdel tekhnicheskoy informatsii.

Ed. (Title page): G. A. Drobilko; Editorial Board: Resp. Ed.: G. A. Drobilko, B. A. Glebov, A. M. Mayzel', and N. Kh. Mernik; Tech. Ed.: A. I. Kontorovich; Managing Ed. for Literature on Machine-Building Technology: Ye. P. Naumov, Engineer, Leningrad Department, Mashgiz.

PURPOSE: This collection of articles is intended for technical personnel in turbine plants, institutes, planning organizations, as well as for production innovators.

Card-1/2

Certain Problems (Cont.)

SOV/5460

COVERAGE: The experience of the LNZ (Leningradskiy metallichесkiy zavod - Leningrad Metalworking Plant) in the manufacture of modern large-capacity turbines is presented. Methods for the rationalization of basic manufacturing processes and for the mechanization and automation of manual operations are given. Descriptions of attachments and tools designed by LNZ for improving labor productivity and product quality are provided, and advanced inspection methods discussed. References accompany some articles. No personalities are mentioned. There are 26 references: 25 Soviet and 1 English.

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## II. THE MECHANIZATION AND AUTOMATION OF LABOR-CONSUMING OPERATIONS

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GAL'PERIN, M.I., inzh.; RUDNIK, A.G., inzh.

Designing, assembling, and testing the runners of the hydraulic turbines of the Volga and Stalingrad Hydroelectric Power Stations.  
Energ. stroi. no.20:82-89 '61. (MIR 252)

1. Leningradskiy metallichесkiy zavod (for Gal'perin). 2. Montazhnoye upravleniye tresta "Spetsgidroenergomontazh" na Stalingradgidrostroye (for Rudnik).

(Volga Hydroelectric Power Station (Lenin)--Hydraulic turbines)  
(Volga Hydroelectric Power Station (22d Congress of the CPSU)--  
Hydraulic turbines)

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At the Stalingrad Hydroelectric Power Station. Energomashinostroenie  
7 no.7:23,29 Jl '61. (MIRA 14:8)  
(Stalingrad Hydroelectric Power Station)

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Some characteristics of the alignment of vertical hydraulic machinery units. Energomashinostroenie 7 no.9:28-31 S '61.  
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(Hydroelectric power stations)

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World's largest hydroelectric power plant. Energomashinostroenie  
7 no.12:34 D '61. (MIRA 14:12)  
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Fiterman. Energomashinostroenie 8 no.12:42-43 D '62.  
(MIRA 16:1)

(Hydraulic turbines--Handbooks, manuals, etc.)  
(Hydraulic turbines--Maintenance and repair)

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Signs of cavitation damage in hydraulic turbines and their repair  
under operating conditions. Energomashinostroenie 9 no.2:  
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(Hydraulic turbines)

GAL'YRIN, M.I., Inst.

Hydraulic turbines for the Krasnoyarsk Hydroelectric Power  
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Spiral chambers of hydraulic turbines of the Bratsk Hydroelectric Power Station. Energomashinostroenie 9 no.4:34 Ap '63.

(MIRA 16:5)

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Fastening of rotor wheel chambers of adjustable-blade turbines.  
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Special features in the installation of hydraulic power equipment in the Volga Hydroelectric Power Station (22d Congress of the CPSU). Energomashinostroenie 10 no.2:43-46 F '64.

GAL'PERIN, M.I., inzh.

Helical chambers of hydraulic turbines for the Krasnoyarsk  
Hydroelectric Power Station. Energomashinostroenie 10 no.4:  
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Impact-load of cutting chain and their dependence on construction parameters. Mekh. stroi. 10, No. 3, 1953.

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no.2:44-46 Mr '54. (MIRA 7:3)  
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Cutting building stone with abrasive tools. Mekh.stroi. ll no.7:  
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(Stonecutting)

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GAL'PERIN, M.I., inzhener; TORGONENKO, Ye.A., inzhener; DEGTYAREV, A.P.,  
Inzhener.

Working frozen ground. Stroi.prom. 32 no.10:14-17 0 '54. (MLRA 7:11)  
(Earthwork) (Frozen ground)

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CIA-RDP86-00513R000614130002-4"

GAL'PERIN, M.I.

ABERGAUZ, V.D.; GAL'PERIN, M.I.; GAROVNIKOV, V.I., inzhener, redakteur;  
KRYUGER, Yu.V., redakteur; VOLKOV, V.S., tekhnicheskiy redakteur.

[Vibrator at construction sites] Vibrator na strelkakh. Moskva,  
Gos.izd-vo lit-ry po strelit. i arkhitektute, 1955. 79 p.  
(Concrete)

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trud.rab.9 no.9:37-39 S'55.  
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"Improving the quarrying of non-mineral building materials."  
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GAL'PIN, M. I.: "Investigation of the cutting of limestone in construction."  
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*Knizhnaya letopis'*, No 39, 1956, Moscow

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GAL'PERIN, M.I., kandidat tekhnicheskikh nauk; GAROVNIKOV, V.I.,  
V.I., inzhener, nauchnyy redaktor; BEGAK, B.A., redaktor izdatel'-  
stva; VOLKOV, V.S., tekhnicheskiy redaktor.

[Obtaining and working building stones] Dobycha i obrabotka stroi-  
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(Building stones) (Quarries and quarrying) (Stonecutting)

GAL'PERIN, M., kandidat tekhnicheskikh nauk.

Pamphlet on hard alloy saws ("Saving limestone and marble with hard alloy saws." A.A. Mamurovskii, E.A. Martyniuk. Reviewed by M. Gal'perin). Stroi.mat., izdel.i konstr. 2 no.6:36 Je '56.  
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Earthwork under cold weather conditions. Nov.tekh.i pered.op.v  
stroj. 18 no.10:8-10 0 '56. (MLRA 9:11)  
(Earthwork--Cold weather conditions)

GAL'PERIN, M.I., kandidat tekhnicheskikh nauk.

Experimental testing of machines used for working frozen ground.  
Stroi. prom. 34 no.9:11-12 S '56. (MIRA 9:10)

(Frozen ground) (Earthmoving machinery)

GAL'PERIN, M.I., kandidat tekhnicheskikh nauk.

New methods for crushing rocks. Mekh.trud.rab. 11 no.3:23-24  
Mr '57. (MLRA 10:5)

(Crushing machinery)  
(Boring machinery)

GAL'PERIN, M.I., kandidat tekhnicheskikh nauk.

Determining mean strength of stone materials. Nov. tekhn. i pered.  
op. v stroi. 19 no.2:15-17 P '57. (MLRA 10:4)  
(Limestone)

GAL'PERIN, M.I., k. 1.1.1. tekhnicheskikh reakcii; ABBREGAUS, V.D., inzhener.

Resistance to breaking of limestone during cutting. Stroi. i dor.  
wasninastr. 2 no. 3:20-22 Ag '57. (MIRA 10:9)  
(Limestone) (stone-cutting)

AUTHOR:

Nikolayev, B. A. Engineer, Gal'perin, M. I.,  
Candidate of Technical Sciences (Moscow)

95-11-11/14

TITLE:

The Mechanization of Earthwork in Frozen Soil  
(Mekhanizatsiya razrabotki merzlykh gruntov)

PERIODICAL:

Stroitel'stvo Predpriyatiy Neftyanoy Promyshlennosti, 1957,  
Nr 11, pp. 26-28 (USSR)

ABSTRACT:

Going over to whole-year cultivation, a process that is developing everywhere, and the increasing volume of soil cultivation in the eastern parts of the country made it necessary that hard-frozen soils were worked to an increased extent. This kind of cultivation is of very great importance if it is prepared by electroheating and if loosening of the ground is carried out by means of pneumatic pickaxes. It has already been proved that loosening of the soil by mechanical means is the most rational preparation for the working of hard-frozen soils. The Dieselhammer, which is mounted on a tractor or on a tractor carrier, loosens 100 m<sup>3</sup> of hard-frozen soil in the course of one working operation when dealing with excavations on building sites if the depth of freezing attains 0,8 - 1 m. This system is first used for dealing with the initial building trench. The wedge is driven into the frozen soil by means of a Dieselhammer, after which the tractor is moved to the rear,

Card 1/3